

279



TRADE MARK

COMMERCIAL LIGHTING UNITS



Nicco
and

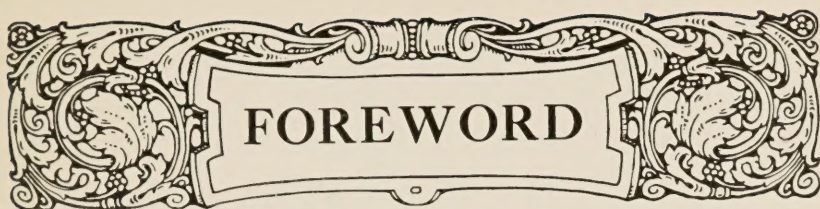
Delica White
Best Glass for Light
Catalogue No. 31

KOPP GLASS, INC.

Now doing the business formerly conducted by
PITTSBURGH LAMP, GLASS & GLASS COMPANY

at

Swissvale, Pa.



FOREWORD

IT IS our pleasure to present to you in this Catalogue, illustrations of our line of LIGHTING UNITS.

Our Units have been scientifically designed to give the most light, with proper diffusion, for given wattage. They are beautiful in appearance and at the same time yield the highest degree of efficiency.

In the wide range of shapes and sizes in which these Units are made, we offer to the trade a Lighting Unit for every purpose—Plain Units in single Glass, our Superior NICCO OPAL Glass, for Commercial and Industrial lighting, and the more graceful shapes in Cased Glasses—DELICA WHITE and DEL IVORY, with various decorative effects to meet the requirements for any artistic interiors or Public Buildings.

It is the policy of the KOPP GLASS, INC., to make a product of quality and merit rather than inferior merchandise at lower prices. Considering the efficiency and service obtained from our Units we believe that in the end they will prove to be the most economical.

Our position today in the Lighting Field is not attributable to any special privilege or secret process but rather to the intelligent application of skill and useful knowledge of Glassmaker's art and chemistry gained from many years of practical experience and untiring efforts.

We also manufacture Decorative Shades for Residential Lighting and special uses, illustrated in our Catalogue No. 32. Electroliers and Torchères—Catalogue No. 33. If interested in these lines we will be glad to forward Catalogues on request.

"K. G. I." Aims to SATISFY.

KOPP GLASS, INC.

DELICA WHITE CASED GLASS

DEL IVORY CASED GLASS

NICCO OPAL GLASS

ON THE opposite page you will find illustrated various shapes and decorative effects in our line of **LIGHTING UNITS**, representing modern French as well as classic ideas in Decorations, some of which are quite a departure from the usual run of Units.

Certain Units are designed for special purposes, such as our—**BRILLIANT UNIT**, illustrated on Page 4, of this Catalogue. This Unit is recommended for Jewelry Stores, Restaurants and Display Rooms—it has found immediate reception wherever shown.

DELICA WHITE CASED GLASS

On account of the process employed in making **DELICA WHITE CASED GLASS**, viz., that of casing or spreading a fine film of high grade Pure White Glass over a main body of Crystal Glass, we obtain a Glass of greatest diffusion and smallest absorption, with a highly polished surface. A simple test to show the delicacy of this Glass is to lay a piece of printed matter against the inner surface of the Glass and you will note that it can be easily read, which cannot be done with other Glasses.

DEL IVORY CASED GLASS

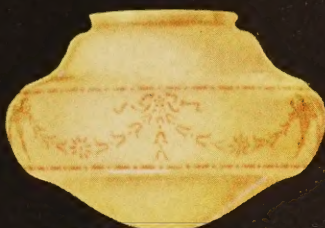
This Glass is made by the same process as the Delica White Glass, the fine film being of a light Ecru Color Glass, producing a beautiful Ivory color. This Glass is more for decorative effect where a strong light is not desired—is most suitable for Hospitals, Churches and special effects in interiors.

NICCO OPAL GLASS

Our **NICCO OPAL Glass** is also a Glass of special merit and should not be confused with ordinary Opal Glass. It is also the result of years of experiments and we do not hesitate to say that it is the strongest Glass on the market today. Besides having a low absorption and good diffusion it will also withstand various changes in temperature, and has proven highly satisfactory in places where Glass is exposed to changes of the elements. We believe a trial of this Glass will convince you of the superiority we claim for it.



911 N-4 913 N-4
912 N-4 914 N-4
915 N-4



863 I-4 868 I-4
867 I-4 869 I-4
870 I-4



881 D-4 884 D-4
882 D-4 885 D-4
883 D-4 886 D-4



901 I-4 905 I-4
902 I-4 906 I-4
903 I-4 907 I-4
904 I-4 908 I-4



862 D-4 875 D-4
866 D-4 876 D-4
873 D-4 877 D-4
874 D-4 878 D-4
896 D-4



852 I-4 855 I-4
853 I-4 861 I-4
854 I-4 865 I-4

The letter "D" Designates DELICA WHITE Cased Glass
The letter "I" Designates DEL IVORY Cased Glass.
The letter "N" Designates NICCO-OPAL Glass.



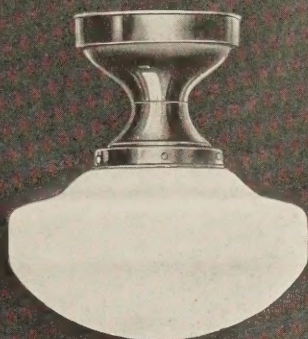
Brilliant Unit

Nicco Opal and Imitation Cut Crystal Glass

Two-piece Unit joined with Spun Brass Nickel Plated Ring

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
920-N	6 in.	13 in.	11 in.	300	1/12 Doz.	11 lbs.

Fixture illustrated above is No. 2971—6-in. Fitter. See page 14 for further information pertaining to Fixture. For price information see page 2 of separate price list. When ordering Units specify Complete Number including Decoration Number.



911 913
912 914
915

DEC. 4. "NEW EMPIRE" DESIGN.

N-Nicco Opal Glass

Plain and Decoration 4, "NEW EMPIRE" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
911	4 in.	10 in.	7 in.	100 to 150	1/2 doz.	25 lbs.
912	6 in.	12 in.	7 1/2 in.	150 to 200	1/6 doz.	18 lbs.
913	6 in.	14 in.	9 1/8 in.	200	1/12 doz.	12 lbs.
914	6 in.	16 in.	10 1/4 in.	300	1/12 doz.	15 lbs.
915	4 in.	12 in.	7 1/2 in.	150 to 200	1/6 doz.	18 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see page 2 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



DEC. 4. "SCROLL" DESIGN.

D-Delica White Cased Glass

I-Del Ivory Cased Glass

Plain and Decoration 4, "SCROLL" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
901	3 1/4 in.	6 1/2 in.	5 1/2 in.	50 to 75	1 doz.	18 lbs.
902	4 in.	8 1/2 in.	7 1/4 in.	75 to 100	2 2/3 doz.	28 lbs.
903	4 in.	10 1/2 in.	8 in.	100 to 150	1 2/3 doz.	22 lbs.
904	6 in.	12 1/2 in.	10 in.	150 to 200	1 1/6 doz.	18 lbs.
905	6 in.	14 1/2 in.	10 3/4 in.	200	1 1/6 doz.	20 lbs.
906	6 in.	16 in.	12 1/2 in.	300	1 1/12 doz.	15 lbs.
907	6 in.	18 in.	14 3/4 in.	300 to 500	1 1/12 doz.	20 lbs.
908	4 in.	12 1/2 in.	10 in.	150 to 200	1 1/6 doz.	18 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see pages 2 and 3 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



863 868
867 869
870

DEC. 4. "ADAMS" DESIGN.

D-Delica White Cased Glass I-Del Ivory Cased Glass
N-Nicco Opal Glass

Plain and Decoration 4, "ADAMS" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
863	4 in.	10 in.	7½ in.	100 to 150	½ doz.	25 lbs.
867	4 in.	8 in.	6½ in.	75 to 100	⅔ doz.	27 lbs.
868	5 in.	10 in.	7½ in.	100 to 150	½ doz.	25 lbs.
869	6 in.	12½ in.	8½ in.	150 to 200	⅔ doz.	16 lbs.
870	6 in.	15½ in.	10 in.	300	⅔ doz.	19 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see page 3 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



D-Delica White Cased Glass I-Del Ivory Cased Glass
N-Nicco Opal Glass

Plain and Decoration 4, "EMPIRE" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
852	4 in.	10 in.	7 in.	100 to 150	$\frac{1}{2}$ doz.	25 lbs.
853	6 in.	12 in.	9 in.	150 to 200	$\frac{1}{2}$ doz.	16 lbs.
854	6 in.	14 in.	$9\frac{1}{2}$ in.	200	$\frac{1}{2}$ doz.	18 lbs.
855	6 in.	16 in.	$11\frac{1}{2}$ in.	300	$\frac{1}{12}$ doz.	15 lbs.
861	4 in.	12 in.	8 in.	150 to 200	$\frac{1}{6}$ doz.	16 lbs.
865	4 in.	8 in.	6 in.	75 to 100	1 doz.	26 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see pages 3 and 4 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



DEC. 4 "RENAISSANCE" DESIGN

881	884
882	885
883	886

D-Delica White Cased Glass

Plain and Decoration 4, "RENAISSANCE" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
881	4 in.	9 in.	8 1/4 in.	75 to 100	1/2 doz.	22 lbs.
882	4 in.	10 in.	8 3/4 in.	100 to 150	1/2 doz.	21 lbs.
883	4 in.	12 in.	10 in.	150 to 200	1/2 doz.	15 lbs.
884	6 in.	12 in.	10 in.	150 to 200	1/2 doz.	15 lbs.
885	6 in.	14 in.	12 1/4 in.	200	1/2 doz.	18 lbs.
886	6 in.	16 in.	12 1/4 in.	300	1 1/2 doz.	14 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see page 4 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



D-Delica White Cased Glass I-Del Ivory Cased Glass
N-Nicco Opal Glass

Plain and Decoration 4, "EMPIRE" Design in Ecru Color

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
862	6 in.	12 in.	12 in.	150 to 200	1/6 doz.	17 lbs.
866	4 in.	7 in.	7 in.	50 to 75	1 doz.	23 lbs.
873	4 in.	10 in.	10 in.	100 to 150	1/6 doz.	22 lbs.
874	5 in.	10 in.	10 in.	100 to 150	1/6 doz.	22 lbs.
875	6 in.	14 in.	13 1/2 in.	200	1/12 doz.	12 lbs.
876	8 in.	14 in.	13 1/2 in.	200	1/12 doz.	12 lbs.
877	6 in.	16 in.	15 1/2 in.	300	1/12 doz.	15 lbs.
878	8 in.	16 in.	15 1/2 in.	300	1/12 doz.	15 lbs.
896	4 in.	8 in.	8 in.	75 to 100	3/8 doz.	27 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see page 5 of separate price list.

When ordering Units, specify Complete Number including Decoration Number



D-Delica White Cased Glass

I-Del Ivory Cased Glass

N-Nicco Opal Glass

Number	Fitter	Diameter	Depth	Recommended Wattage	Standard Package	Weight Package
828	6 in.	12 in.	12 in.	150 to 200	1/6 doz.	17 lbs.
829	9 in.	12 in.	12 in.	150 to 200	1/6 doz.	17 lbs.
830	4 in.	8 in.	8 in.	75 to 100	2/3 doz.	27 lbs.
831	5 in.	10 in.	10 in.	100 to 150	1/3 doz.	22 lbs.
837	6 in.	12 in.	9 in.	150 to 200	1/6 doz.	16 lbs.
838	6 in.	14 in.	9 1/2 in.	200	1/6 doz.	18 lbs.
843	6 in.	16 in.	11 1/2 in.	300	1/12 doz.	15 lbs.
880	6 in.	14 in.	16 in.	200	1/12 doz.	15 lbs.
888	4 in.	10 in.	10 in.	100 to 150	1/3 doz.	22 lbs.
889	8 in.	14 in.	16 in.	200	1/12 doz.	15 lbs.
909	4 in.	10 in.	8 3/4 in.	100 to 150	1/3 doz.	20 lbs.
*910	6 in.	16 in.	11 in.	300	1/12 doz.	15 lbs.

Chain Fixture illustrated above is No. 2970—4-in. Fitter. No. 2971—6-in. Fitter. Ceiling Type Fixture is No. 2975—6-in. Fitter. No. 2985—4-in. Fitter. See page 14 for further information pertaining to Fixtures.

*No. 910 is same design as No. 909 shown above.

SPECIAL NOTE—Above Units are carried in stock without hole in bottom. If desired with hole there will be an extra charge for drilling. For price information see page 6 of separate price list.

When ordering Units, specify Complete Number including Decoration Number

CANDLEPOWER DISTRIBUTION TEST:

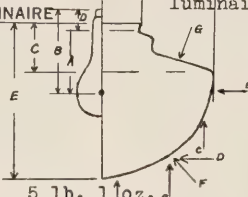
UNIT No. 855 Delica White Glass

FOR KOPP GLASS, Inc.
Swissvale, Pa.

LAMP 300 watt, Mazda C.
BULB P.S. Clear, ring filament.
115 volt.
HOLDER 6", submitted with luminaire.
PROCEDURE Readings taken in F one plane.
Same lamp used in same holder as luminaire.

DIMENSIONS OF LUMINAIRE

A 5 1/2"
B 7"
C 3 3/8"
D 1 1/2"
E 11 5/8"
F 15 3/4" H-6"



WEIGHT OF GLASS 5 lb. 1 oz.

LUMINAIRE DISTRIBUTION DATA

Vertical

MID-ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS
0°	650	15	90°	505	444
5°	675		100°	405	445
10°	684	130	110°	404	415
20°	630	236	120°	411	390
30°	594	325	130°	427	358
40°	587	413	140°	448	316
50°	540	454	150°	458	250
60°	502	476	160°	477	178
70°	462	475	170°	478	91
80°	435	468	180°	487	12

LIGHT FLUX VALUES

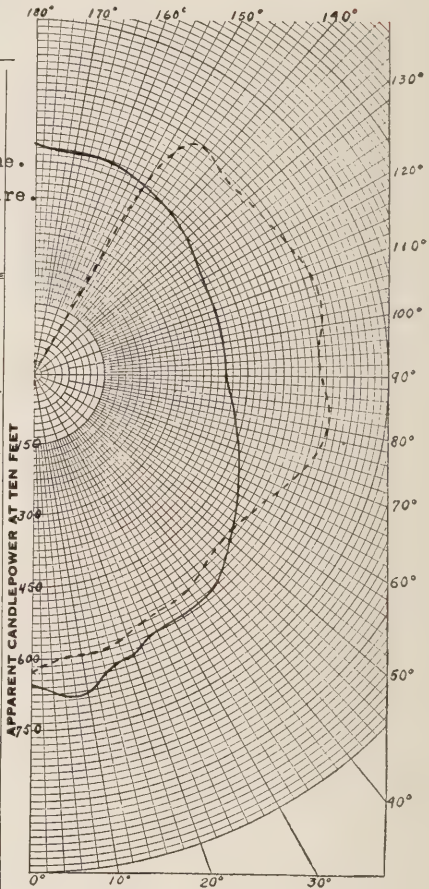
ZONE	LUMENS		PERCENT	
	LAMP	LUMINAIRE	TOTAL LUMENS BARE LAMP	LIGHT OUTPUT
0°-30°	500	543	8.0	87.2
0°-60°	1747	1810	26.8	
0°-90°	3613	3213	47.6	
90°-180°	3137	2677	39.6	

LUMINAIRE BRIGHTNESS

MILLILAMBERTS AND CANDLEPOWER PER SQUARE INCH

LOCATIONS	A	B	C	D	E	F	G	H
MILLILAMBERTS	1780	1830	1425	1240	1350	1430	1530	1490
CP. PER SQ. IN.	3.66	3.76	2.93	2.55	2.77	2.94	3.14	3.06

Note: Arrows indicate locations and angle of view.



TESTED BY *W. H. Michener*
P. C. Ash

DATE 7/28/26

AT CARNEGIE INSTITUTE OF TECHNOLOGY, PITTSBURGH, PA.

Above test report will give you the Light Distribution of Unit No. 855-D, Delica White Cased Glass. Tests have been made of other Delica White Units shown in this Catalogue; reports will be furnished on application.

CANDLEPOWER DISTRIBUTION TEST:

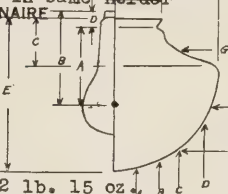
UNIT No. 855 Nicco Glass

FOR KOPP GLASS, INC.,
Swissvale, Pa.

LAMP 300 Watt Mazda C.
BULB P.S. Clear, ring filament.
115 Volt
HOLDER Submitted with Luminaire

PROCEDURE Luminaire rotated in 90° steps
Bare Lamp used in same Holder

DIMENSIONS OF LUMINAIRE
A 5 1/2"
B 7"
C 3 3/8"
D 1 1/2"
E 11 3/8"
F 15 3/4" H-6°



WEIGHT OF GLASS 2 lb. 15 oz.

LUMINAIRE DISTRIBUTION DATA

Mean Vertical

WID ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS	MID-ZONE ANGLES	APPARENT CANDLEPOWER AT 10 FEET	ZONAL LUMENS
0°	562	13	90°	377	412
5°	630		100°	366	394
10°	566	108	110°	368	377
20°	559	209	120°	383	373
30°	547	299	130°	392	330
40°	520	367	140°	393	277
50°	493	415	150°	400	219
60°	460	436	160°	408	153
70°	422	432	170°	416	79
80°	394	423	180°	418	10

LIGHT FLUX VALUES

ZONE	LUMENS		PERCENT	
	LAMP	LUMINAIRE	BARE LAMP	LIGHT OUTPUT
0°-30°	461	479	7.7	85.8
0°-60°	1618	1629	26.2	
0°-90°	3279	2908	46.8	
90°-180°	2924	2418	39.0	

LUMINAIRE BRIGHTNESS

MILLILAMBERTS AND CANDLEPOWER PER SQUARE INCH

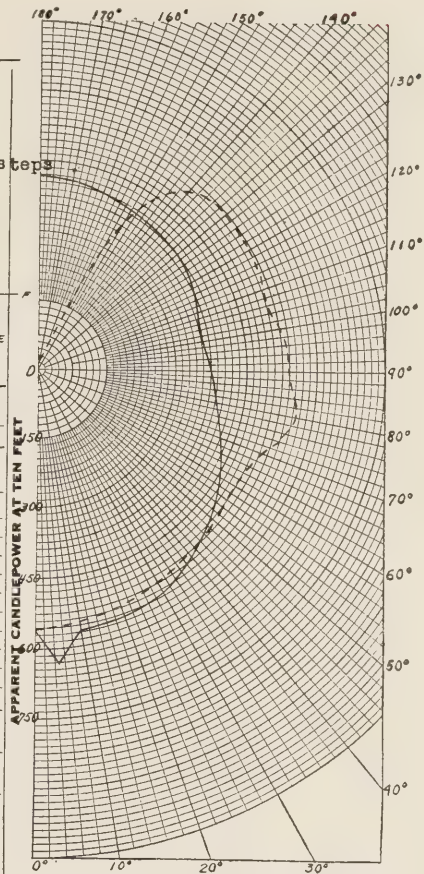
LOCATIONS	A	B	C	D	E	F	G	H
Note: -	Arrows indicate locations and angle of view.							
MILLILAMBERTS	1990	1900	1700	1445	1400	1520	1170	
CP. PER SQ. IN.	4.1	3.9	3.49	2.97	2.87	3.13	2.41	

TESTED BY

Wm. A. Schaefer
F. C. Ashe

DATE 12-28-26

AT CARNEGIE INSTITUTE OF TECHNOLOGY, PITTSBURGH, PA.



Above test report will give you the Light Distribution of Unit No. 855-N, Nicco Opal Glass. Tests have been made of other Nicco Units shown in this Catalogue; reports will be furnished on application.

LIGHTING FIXTURES

WE DO not manufacture Fixtures, we being manufacturers of Glass only, but for the convenience of our patrons who wish to purchase the Glassware with Fixtures complete, we have selected a line of Fixtures which we believe will meet the requirements of the trade, and carry a stock so that we may be in position to make prompt shipment.

We have illustrated these Fixtures in this catalogue with our Lighting Units and will be glad to accept your orders for Fixtures complete with Glassware.

These Fixtures are made of the very best grade materials of good weight. Furnished in Standard Finishes as specified, of the highest quality.

No. 2970—4-inch Fitter, Brush Brass and Statuary Bronze.

No. 2971—6-inch Fitter, Brush Brass and Statuary Bronze.

No. 2975—6-inch Fitter, Brush Brass, Statuary Bronze and White Enamel.

No. 2985—4-inch Fitter, Brush Brass, Statuary Bronze and White Enamel.

Standard Length Chain Fixtures, 36 inches.

Tassel can also be furnished if desired.

For price information see page 7 of separate price list.

Instructions for Ordering

When ordering Fixtures, be sure to state number of Fixture and Finish desired, also length of Fixture or height of Ceiling, and if wanted WITH or WITHOUT Wire and Socket. On Nos. 2970 and 2971 specify size of Loop wanted.

TERMS

Net thirty days; F. O. B. cars our factory.

Deliveries to carriers contingent upon strikes, accidents and delays unavoidable or beyond our control.

All goods are carefully inspected and checked before packing. They are securely packed to insure delivery in perfect condition to the carrier. They are sold only F. O. B. CARS OUR FACTORY, and we assume no responsibility for safe arrival, as our responsibility ceases absolutely as soon as a bill of lading is issued.

If shipments are not delivered to you in good order, and in accordance with items shown on your invoice, we recommend that you proceed as follows:

- 1st. Sign Railroad receipt "short" or "damaged" and have your freight agent mark the freight bill similarly.
- 2nd. If packages are delivered in apparent good order, but, on opening, contents are found damaged or broken, call freight agent to view same, and have him mark freight bill relative to such "Concealed Damage."
- 3rd. We will, on request, send you a Duplicate Bill of Lading, and also, if desired, send a duplicate invoice.
- 4th. Charge the claim against the Transportation Company on your books, sending a bill of same to your freight agent, with the original Bill of Lading, paid freight bill and copy of our invoice to support it.
- 5th. Make your claim promptly, for the Transportation Company will not consider a claim unless presented within four months from date of shipment.

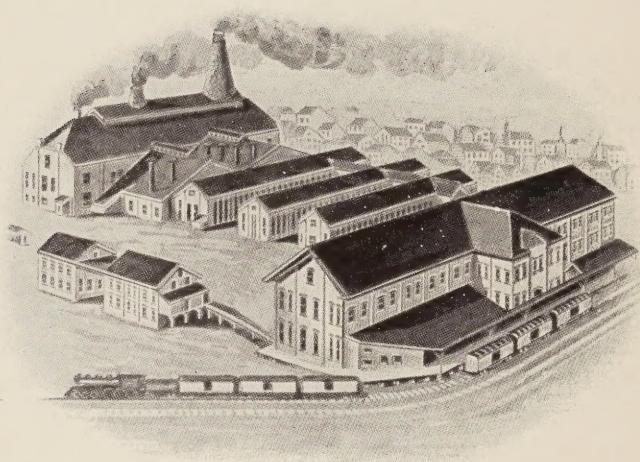
Should the breakage be of a serious nature, pay the charges anyway and then write us for instruction.

Never Refuse a Shipment

If you should refuse a shipment because of damages, the Transportation Company will pay no attention except to ask for disposition of the goods, and if no disposition is made, the law allows them to sell the goods for their freight and storage charges. In order to secure attention, the goods **MUST FIRST BE RECEIVED AND FREIGHT PAID.**

Always remember that they are your goods under the law, and you must show a disposition to assist in adjusting the matter.

We will be pleased to co-operate with you in overcoming breakages, or the mishandling of any of our shipments.



KOPP GLASS, INC.
Swissvale, Pa.

On Main Line of Pennsylvania R. R.
Eight Miles East of Pittsburgh

